



Solutia Inc.
W.G. Krummrich Plant
500 Monsanto Avenue
Sauget, Illinois 62206-1198
Tel 618-271-5835

March 7, 2003
(Via certified or express mail)

Kevin Turner-Environmental Scientist, OSC
U. S. Environmental Protection Agency
c/o Crab Orchard National Wildlife Refuge
8588 Rt. 148
Marion, IL 62959

Thomas Martin
Associate Regional Counsel
77 West Jackson Boulevard (C-14J)
Chicago, IL 60604-3590

**Re: Sauget Sites Area I - May 31, 2000 Unilateral Administrative Order (UAO)
Sediment / Soils Removal Action
22 - March 2003 Monthly Report**

Dear Mr. Turner and Mr. Martin,

Enclosed is the March 2003 Monthly Report for the Sauget Sites Area I May 31, 2000 Unilateral Administrative Order ("UAO") Sediment Removal Action. This submittal is in fulfillment of the monthly reporting requirements of the UAO, Section V, and paragraph 3.4. Reporting.

Sincerely,

A handwritten signature in black ink, appearing to read "Alan G. Faust", is written over the word "Sincerely,".

Alan G. Faust
Project Coordinator
Solutia Inc.

See 1/21/99
A handwritten signature in black ink, possibly reading "See 1/21/99", is written below the date.

cc: Nabil Fayoumi - USEPA Region 5
Sandra Bron - IEPA
Mike Henry - IDNR
Kevin de la Bruere - USFW
Linda Tape - Husch & Eppengerger
Mayor D. Reed - Cahokia
Village of Sauget - c/o P. H. Weis & Associates (Attn: Brian Nelson)
Mayor P. Sauget - Sauget, IL
Richard Williams - Solutia

Sauget Sites Area I - Sauget, Illinois

May 31, 2000 UAO – Dead Creek Sediment Removal Action

Monthly Report

Date of Report: March 7, 2003
Period Covered: February 1, 2003 - February 28, 2003
Next Report Period: March 1, 2003 - March 31, 2003

Background

A Unilateral Administrative Order ("UAO") was issued to Solutia by the U. S. EPA on May 31, 2000, requiring construction of an on-site containment cell, removal of affected creek bed sediments and soils and flood plain soils from specific sections of Dead Creek, and placement of the affected sediments and soils in the newly constructed on-site cell. A Time Critical Removal Action Work Plan ("TCRAWP") was initially submitted to the Agencies on June 30, 2000 for review and approval. Agreements sufficient to proceed with issuance of a request for bids for the containment cell construction were reached in December 2000. Bids were received in late January and evaluated in February 2001.

Fieldwork began on the sediment de-watering phase of the project in November 2000. Installation of the required facilities (piping, pumps, basins, etc.) to de-water the sediments while the containment cell was being constructed was completed and started up in February 2001. Operation of these facilities will continue until all sediments are placed into the containment cell.

Subject to the inclusion of all comments and agreed upon revisions; approval of the containment cell design by U. S. EPA was received on March 5, 2001. A contract for construction of the containment cell was awarded on March 8, 2001 to LMS Environmental Contracting, Inc. ("LMS"). Placement of fill for the Containment Cell berms began on April 23, 2001. A March 30, 2001 revised draft containment cell design was approved by the Agencies in a May 10, 2001 letter. Construction was completed on the Containment Cell on September 13, 2001. A draft Containment Cell Certification Report was submitted for the Agencies' review and approval upon construction completion. The Containment Cell was approved on September 24, 2001 by USEPA and IEPA for receipt of sediment. Placement of sediments into the cell began on September 26, 2001.

An Amendment to the UAO was received on October 29, 2001. The Amendment modified the project scope of the UAO – adding Creek Sector F sediments removal and placement into the Containment Cell. On August 20, 2001, Solutia requested a change in

the Post Removal Confirmation Sampling and analytical protocols. In a November 30, 2001 communication, the Agency responded with revised sampling and analytical protocols.

Agency Actions / Communications

- Revision 01 of the Draft Groundwater Monitoring Plan - submitted to the Agencies on August 3, 2001 – remained under review.
- The Operations and Maintenance Report - submitted for the Agencies' review and approval on August 28, 2001- remained under review. Portions of the Plan applicable to the placement of sediments have already been approved.

Work Performed during the reporting period

- Performed weekly inspection of the site.
- Maintained operation of the 50-gpm stormwater treatment system.
- Inspected and maintained the 6oz. geotextile/6 mil scrim reinforced poly cover over the containment cell.
- Maintained stormwater and leachate collection controls around the containment cell.
- Monitored support area facilities.
- Analyzed samples collected during the December 2002 quarterly sampling of the groundwater monitoring wells around the containment cell. Samples were analyzed for parameters in the Draft Groundwater Monitoring Plan Revision 01.
- A Bid Package for seeding Dead Creek was issued to six potential contractors and a Pre-Bid Meeting with these bidders is scheduled for March 12, 2003.
- The design for the liner to be installed in Creek Sector B is being prepared.
- The Dead Creek Pumping System has been installed. There are a total of six pumping stations along the course of the creek to enhance flow and eliminate ponding caused by vertically misaligned culverts. Final system adjustments and start-up are scheduled for March 2003.

Data Submittal

Validated data from the September 2002 TSCA Cell Quarterly Groundwater Monitoring sampling event are submitted with this report.

Work scheduled for next reporting period

- Conduct routine inspection of the containment cell.
- Continue operation of the 50-gpm stormwater treatment system.
- Perform necessary operation and maintenance on the containment cell and temporary treatment system.
- Validate laboratory data from groundwater samples analyzed for parameters in the Draft Groundwater Monitoring Plan Revision 01.

- Finalize a contract with the selected bidder for the Dead Creek seeding project.
- Start up the pumping system in dead creek and remove standing water in order to permit the landscape contractor to seed the bottom of the creek.
- Conduct the March 2003 TSCA Cell Quarterly Groundwater Monitoring sampling event.

PROJECT COMPLETION

Mobilization	100 %
Berm Construction	100 %
Liner Installation	100 %
Sediment Removal Preparation	100 %
Sediment Excavation (Site M)	100 %
Sediment Excavation (Original Scope of Work)	100 %
Sediment Excavation (Sector F)	100 %
Temporary Cover installation	100 %
Demobilization - Phase I	100 %
Final Cover Installation	0 %
Demobilization - Phase II	0 %
Final Report Preparation	0 %

Problems and Solutions

In discussion with officials from the Village of Cahokia, standing water in separate segments of Dead Creek emerged as a source of concern, given the current public health warnings about the West Nile Virus. The water is stagnant because the creek bottom is significantly lower than culvert inverts.

Because of this concern, Solutia agreed to install temporary pumps to pump the water downstream. This work was completed during the September 1, 2002 – September 30, 2002 reporting period. The permanent pumping system was installed during the January 1, 2002 – January 31, 2002 reporting period. The system consists of six pumps permanently mounted in the creek. The pumps are fitted with level control switches and will pump water downstream through the existing culverts when the water level is below the culvert inverts. AmerenUE completed the power connections at the Cahokia Street and Kinder Street locations, this last reporting period. The system is scheduled for start-up and field testing in March. Level adjustments will also be performed at each of the six (6) pump locations at that time.

Submittal Schedule Status

See attached UAO schedule

Issues under review

None

Comments

None

May 31 Sauget Area I UAO Sediment Removal Action

SCHEDULE

Deliverable	Description	Due Date
Issuance Date	Date UAO signed by Muno	31-May-00
Effective Date	10 business day after issuance	14-Jun-00
Notice of Intent to Comply	3 business days after effective date	19-Jun-00
Designation of Contractor and Project Coordinator	5 business days after effective date	21-Jun-00
Access	14 calendar days after effective date	28-Jun-00
Time Critical Removal Action Work Plan Submittal	15 business days after effective date	7-Jul-00
EPA Approval of TCRA W/P		May 10, 2001
Monthly Reports	Begin 30 calendar days after approval of TCRA W/P until completion	June 10, 2001
Final Report	60 Calendar days after completion of sediments and soils removal	
Mitigation Plan	60 Calendar days after completion of sediments and soils removal	May 22, 2002

APPENDIX A

Summary of Table of Validated Analytical Data for Ground Water Samples



O'BRIEN & GERE
ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 8260 Volatile Organic Compound Data

Sample ID	TACO Standards Class I GW (2/26/02)	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-04
Sample Date		09/24/02	09/24/02	09/25/02	09/25/02	09/25/02	09/25/02
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,1,1-Trichloroethane	200c	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	NC	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5c	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	700	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	7c	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5c	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5c	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	NC	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	NC	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)	NC	25 U	25 U	25 U	25 U	25 U	25 U
Acetone	700	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	5c	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane	0.2a	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	1a	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	9.8	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide	700	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5c	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	100c	5 U	5 U	5 U	1.1 U	5 U	5 U
Chloroethane	NC	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	0.2a	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	NC	10 U	10 U	10 U	10 U	10 U	10 U
Cis-Trans-1,2-Dichloroethene	NC	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	140	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	700c	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)	5c	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene	100c	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5c	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	1000c	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5c	0.49 U	2.7 U	0.46 U	2.7 U	2.7 U	2.7 U
Vinyl chloride	2c	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total	10000c	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	NC	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NC	5 U	5 U	5 U	5 U	5 U	5 U
Total VOCs	NC	0.49	ND	0.46	3.1	ND	ND

NOTES:

U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards
 a - The ground water remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.
 b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.
 c - Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

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Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 8260 Volatile Organic Compound Data

Sample ID	TACO Standards Class I GW (2002)	TCMW-05M	TCMW-05B	TCMW-06M	TCMW-06S	TCMW-06S DUP
Sample Date	09/23/02	09/23/02	09/23/02	09/24/02	09/24/02	09/24/02
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound						
1,1,1-Trichloroethane	200c	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	NC	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5c	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	700	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	7c	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5c	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5c	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	NC	25 U	25 U	25 U	25 U	25 U
2-Hexanone	NC	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)	NC	25 U	25 U	25 U	25 U	25 U
Acetone	700	50 U	50 U	50 U	50 U	50 U
Benzene	5c	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane	0.2a	5 U	5 U	5 U	5 U	5 U
Bromoform	1a	5 U	5 U	5 U	5 U	5 U
Bromomethane	9.8	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide	700	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5c	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	100c	6.9	5 U	5 U	5 U	5 U
Chloroethane	NC	10 U	10 U	10 U	10 U	10 U
Chloroform	0.2a	5 U	5 U	5 U	5 U	5 U
Chloromethane	NC	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene	NC	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	140	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	700c	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)	5c	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene	100c	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5c	5 U	5 U	5 U	5 U	5 U
Toluene	1000c	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5c	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride	2c	10 U	10 U	10 U	10 U	10 U
Xylenes, Total	10000c	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	NC	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NC	5 U	5 U	5 U	5 U	5 U
Total VOCs	NC	6.9	ND	ND	ND	ND

NOTES: U - not detected, E - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards.

a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.

b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

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Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 8270 Semivolatile Organic Compound Data

Sample ID	TACO Standards Class I GW (2/2002)	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-04
Sample Date	09/24/02	09/24/02	09/24/02	09/25/02	09/25/02	09/25/02	09/25/02
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,2,4-Trichlorobenzene	70c	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	600c	10 U	10 U	0.57 J	10 U	10 U	10 U
1,3-Dichlorobenzene	NC	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	75c	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	NC	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	709	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10a	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol	21	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	14	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	0.02a	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	0.31a	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NC	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	35	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NC	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	35b	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	NC	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	NC	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20a	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol	NC	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	NC	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	NC	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether	NC	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol	NC	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	28	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether	NC	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	NC	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	NC	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	420	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NC	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	2100	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	0.13a	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2a,b	10 U	10 U	10 U	10 U	[0.79 J]	10 U
Benzo(b)fluoranthene	0.18a	10 U	10 U	10 U	10 U	[0.6 J]	10 U
Benzo(g,h,i)perylene	NC	10 U	10 U	10 U	10 U	1.2 J	10 U
Benzo(k)fluoranthene	0.17a	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards.

a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.

b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

c - Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

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Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 8270 Semivolatile Organic Compound Data

Sample ID	TACO Standards Class I GW (2/20/02)	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-04
Sample Date		09/24/02	09/24/02	09/25/02	09/25/02	09/25/02	09/25/02
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Butylbenzylphthalate	1400	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	NC	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Chrysene	1.5a	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	700	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	140	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3a	10 U	10 U	10 U	10 U	[0.91 U]	10 U
Dibenzofuran	NC	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	5600	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	NC	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	280	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	280	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	0.06a	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	NC	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	50c	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	7	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	0.43a	10 U	10 U	10 U	10 U	[0.95 U]	10 U
Isophorone	1400	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	1.8a	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	NC	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	140	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	1c	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene	NC	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	100c	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	210	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	NC	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10a	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	5c	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles	NC	ND	ND	ND	0.57	4.45	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards.

a - The groundwater remediation objective is equal to the ADI for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.

b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

c - Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

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Date Printed: 03/06/03 09:09:47

DBF File: Q:\10040_SOLUTIA\J2444_SAUGETGWMONITOR\TEMPDATA.DBF

EXP File: Q:\10040_SOLUTIA\J2444_SAUGETGWMONITOR\TABLEPR.EXP

File Number: 10040.3244



O'BRIEN & GERE
ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 8270 Semivolatile Organic Compound Data

Sample ID	TACO Standards Class I GW	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S	TCMW-06S DUP
Sample Date	(2/20/02)	09/23/02	09/23/02	09/24/02	09/24/02	09/24/02
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound						
1,2,4-Trichlorobenzene	70c	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	600c	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	NC	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	75c	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	NC	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	700	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10a	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol	21	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	14	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	0.02a	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	0.31a	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NC	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	35	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NC	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	350	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	NC	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	NC	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20a	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol	NC	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	NC	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	NC	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether	NC	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol	NC	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	28	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether	NC	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	NC	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	NC	50 U	50 U	50 U	50 U	50 U
Acenaphthylene	420	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NC	10 U	10 U	10 U	10 U	10 U
Anthracene	2100	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	0.13a	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2a,c	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.18a	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	NC	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	0.17a	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, {} - exceeds TACO Class I Ground Water Standards
a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.
b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.
c - Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.



O'BRIEN & GERE
ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1

Ground Water - September 2002
Method 8270 Semivolatile Organic Compound Data

Sample ID	TACO Standards Class I GW	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S	TCMW-06S DUP
Sample Date	(2/20/02)	09/23/02	09/23/02	09/24/02	09/24/02	09/24/02
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound						
Butylbenzylphthalate	1400	10 U	10 U	10 U	10 U	10 U
Carbazole	NC	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Chrysene	1.5a	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	700	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	140	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3a	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	NC	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	5600	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	NC	10 U	10 U	10 U	10 U	10 U
Fluoranthene	280	10 U	10 U	10 U	10 U	10 U
Fluorene	280	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	0.06a	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	NC	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	50c	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	7	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	0.43a	10 U	10 U	10 U	10 U	10 U
Isophorone	1400	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	1.8a	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	NC	5 U	5 U	5 U	5 U	5 U
Naphthalene	140	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	1c	5 U	5 U	5 U	5 U	5 U
Phenanthrene	NC	10 U	10 U	10 U	10 U	10 U
Phenol	100b	10 U	10 U	10 U	10 U	10 U
Pyrene	210	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	NC	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10a	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	60	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles	NC	1.5	ND	ND	ND	ND

NOTES:

U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards

a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.

b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

c - Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

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Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 680 Polychlorinated Biphenyl Data

Sample ID	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-04	TCMW-05M
Sample Date	09/24/02	09/24/02	09/25/02	09/23/02	09/23/02	09/25/02	09/23/02
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Monochlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dichlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pentachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Heptachlorobiphenyl	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Octachlorobiphenyl	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Nonachlorobiphenyl	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Decachlorobiphenyl	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total PCBs	ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, () - exceeds TACO Class I Ground Water Standards

a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620

b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

c - Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

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O'BRIEN & GERE
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Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 680 Polychlorinated Biphenyl Data

Sample ID	TCMW-05S	TCMW-06M	TCMW-06S	TCMW-06S DUP
Sample Date	09/23/02	09/24/02	09/24/02	09/24/02
Units	ug/l	ug/l	ug/l	ug/l
Compound				
Monochlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U
Dichlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U
Pentachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U
Heptachlorobiphenyl	0.3 U	0.3 U	0.3 U	0.3 U
Octachlorobiphenyl	0.3 U	0.3 U	0.3 U	0.3 U
Nonachlorobiphenyl	0.5 U	0.5 U	0.5 U	0.5 U
Decachlorobiphenyl	0.5 U	0.5 U	0.5 U	0.5 U
Total PCBs	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards

a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.

b - Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

c - Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill. Adm. Code 620.410 for Class I Groundwater or 35 Ill. Adm. Code 620.420 for Class II Groundwater.

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Appendix A
Solutia
Sauget Area I
Ground Water - September 2002
Method 6010/7470 Inorganic Data

Sample ID	TACO Standard Class I GW (2/2002)	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-04
Sample Date		09/24/02	09/24/02	09/25/02	09/23/02	09/23/02	09/25/02
Units	µg/L	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound							
Aluminum	NC	0.2 U	0.2 U	0.2 U	0.031 J	0.2 U	0.2 U
Antimony	0.006c	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05c	0.006 J	0.0056 J	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2c	0.23	0.29	0.17	0.4	0.12	0.13
Beryllium	0.004c	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005c	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	NC	170	150	110		140	120
Chromium	0.1c	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	1c	0.01 U	0.0041 J	0.0034 J	0.01 U	0.0037 J	0.0043 J
Copper	0.05c	0.02 U	0.02 U	0.0011 J	0.02 U	0.02 U	0.02 U
Iron	NC	21	0.05 UJ	0.05 UJ	20	1.8	0.06
Lead	0.0075c	0.005 U	0.005 U	0.005 U	0.005 U	0.0015 J	0.005 U
Magnesium	NC	37	24	22	40	31	28
Manganese	0.15c	[1]	[0.31]	[0.53]	[1.1]	[1.4]	[0.57]
Mercury	0.002c	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1c	0.04 U	0.014 J	0.0094 J	0.04 U	0.04 U	0.0083 J
Potassium	NC	6.5	10	5.9	12	6.7	5.9
Selenium	0.05c	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver	0.05c	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	NC	9.7	57	28	120	36	6.5
Thallium	0.002c	[0.0076 J]	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium	0.049	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	5c	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards.

a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.

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D'BRIEN & GERE
ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - September 2002
Method 6010/7470 Inorganic Data

Sample ID	TACO Standards Class I GW (2/2002)	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S	TCMW-06S DUP
Sample Date		09/23/02	09/23/02	09/24/02	09/24/02	09/24/02
Units	ug/L	mg/l	mg/l	mg/l	mg/l	mg/l
Compound						
Aluminum	NC	0.2 U	0.2 U	0.072 J	0.2 U	0.2 U
Antimony	0.006c	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05c	0.004 J	0.01 U	0.01 U	0.0035 J	0.01 U
Barium	2c	0.18	0.27	0.28	0.18	0.19
Beryllium	0.004c	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005c	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	NC	140	130	110	130	130
Chromium	0.1c	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	1c	0.01 U	0.01 U	0.01 U	0.0019 J	0.0031 J
Copper	0.05c	0.07 J	0.02 U	0.0015 J	0.02 U	0.0018 J
Iron	NC	24	0.05 U	7.5	0.032 J	0.047 J
Lead	0.0075c	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	NC	34	31	21	34	35
Manganese	0.15c	[1.1]	[0.22]	[0.91]	[0.21]	[0.21]
Mercury	0.002c	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1c	0.0084 J	0.0076 J	0.04 U	0.0068 J	0.0083 J
Potassium	NC	6.4	9.6	4	6.3	6.4
Selenium	0.05c	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver	0.05c	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	NC	14	10	15	15	15
Thallium	0.002c	0.01 U	0.01 U	0.01 U	{0.0068 J}	0.01 U
Vanadium	0.049	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	5c	0.1	0.02 U	0.02 U	0.02 U	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate, NC - no criteria, [] - exceeds TACO Class I Ground Water Standards
a - The groundwater remediation objective is equal to the ADL for carcinogens according to the procedures specified in 35 Ill. Adm. Code 620.
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